

REMARKS

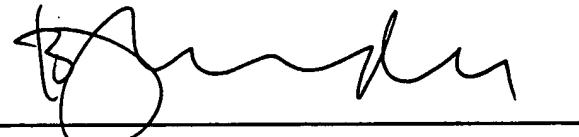
Reconsideration is requested. The specification has been amended to include additional sequence identifiers to correspond with the attached Sequence Listing which has also been added to the specification. No new matter has been added. The attached paper and computer-readable copies of the Sequence Listing are the same. A separate Letter to this effect is attached. A copy of the Notice to Comply received with the Office Action of July 30, 2001 (Paper No. 9) is attached. Nothing further is believed to be required in response to Paper No. 9 however the Examiner is requested to contact the undersigned if otherwise.

An early and favorable Action on the merits is requested.

Respectfully submitted,

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By: _____



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MARKED UP SPECIFICATION AND CLAIMS

Page 15, delete the paragraph spanning lines 11-25, and insert the following therefor:

--A sodium channel probe was generated to allow screening of a rat DRG cDNA library with the aim to identify novel sodium channels present in the DRG. A pan specific sodium channel probe was obtained from Polymerase chain reaction (PCR) experiments using rat genomic DNA as the template and degenerate PCR primers designed from within the 3' coding regions of the brain II, heart, skeletal muscle and glial voltage-gated sodium channel. The oligonucleotide primers used for this analysis were as follows. FORWARD PRIMER (5' CCTG/CGTCATGTTCATCTAC 3' (SEQ ID NO:18)), and REVERSE PRIMER (5' CTCATAA/GGAA/GAC/TCTTGGAG/AGGG 3' (SEQ ID NO:19)). The PCR conditions used were 94⁰C for 30 seconds, 50⁰C for 1 minute and 72⁰C for 2 minutes. These conditions were used for 35 cycles of PCR. The resulting PCR products were separated on a 1% agarose gel and cloned into the TA clonine kit (Invitrogen) according to manufacturers instructions. The resulting clones were taken for sequence analysis and separate clones were identified with identical sequence to the published rat brain II, heart, skeletal muscle and glial voltage-gated sodium channels.--

Page 16, delete the paragraph spanning lines 29 and 30, and insert the following therefor:

--5' AGGGAGGTCACCGGCCTGAAA/C 3' (SEQ ID NO:20);
and 5 AGTGGATA/CGAGAA/CCATGTGGG 3' (SEQ ID NO:21).--

Page 22, delete the paragraph spanning lines 7-17, and insert the following therefor:

--The octadecapeptide CNGDLSSLDVAKVKVHND (SEQ ID NO:22) relating to amino acid residues 1748 to 1765 of SNS_{2a} and the peptide EERYYPVIFPDERNC (SEQ ID NO:23) relating to amino acid residues 2 to 15 of SNS_{2a} were synthesised on a Biosearch 9500 peptide synthesiser using solid-phase Fmoc chemistry under conditions recommended by the suppliers. Cleaved peptide was purified by gel filtration and conjugated to purified protein derivative of tuberculin (PPD) using sulpho-SMCC. Dutch rabbits, presensitised against BCG, were immunised with the resulting conjugate emulsified in incomplete Freunds adjuvant. Rabbits were boosted at three week intervals and serum prepared from test bleeds 7 days after each injection. The specific antibody response was followed by indirect ELISA using free synthetic peptide as antigen. High titre antisera were used for further studies.--

Page 22, delete lines 21-26, and insert the following therefor:

--Fusion peptide 1 5' GATCGAATTCAAGGAGAAAATGTTTCAGGA 3' (SEQ ID NO:24) and 5' GATCGTCGACTCATTGGTCTGCTCAAGGA 3' (SEQ ID NO:25)

Fusion peptide 2 5' GATCGAATTGGCGGTGCCCTACCCACCTC 3' (SEQ ID NO:26) and 5' GATCGTCGACTCATTCAACCCCTT 3' (SEQ ID NO:27)

Fusion peptide 3 5' GATCGAATTCAAGCACAACTGTGGCCCCAA 3' (SEQ ID NO:28) and 5' GATCGTCGACTCACATTATGAAGTCTTCGC 3' (SEQ ID NO:29)--

Page 24, delete lines 14-19, and insert the following therefor:

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--Antisense 1 5'-AGT ACC TCT CCT CCA TCT-3' (SEQ ID NO:30)

Mismatch 1 5'-AGT ACT CAT CCC TCA TCT-3' (SEQ ID NO:31)

Antisense 2 5'-CAC CGG GTA GTA CCT CTC-3' (SEQ ID NO:32)

Mismatch 2 5'-CAC GCG CTA GTC ACT CTC-3' (SEQ ID NO:33)

Antisense 3 5'-GTC TTT GGA CTT CTT CCT-3' (SEQ ID NO:34)

Mismatch 3 5'-GTC TGG TGA CTC TTT CCT-3' (SEQ ID NO:35)--